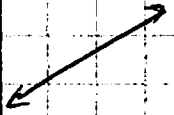
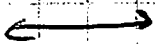

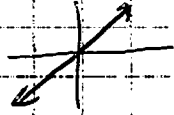


FILL IN THIS CHART (25 POINTS)

THE LINEAR FAMILY CHART

DEGREE	NAME	GRAPH	EQUATIONS	KEYS
1 st	LF		$y = mx + b$ $Ax + By = C$	x, y
1 st	CLF		$y = b$	y
1 st	LR		$x = a$	x
1 st	DV		$y = kx$	LF with $b = 0$

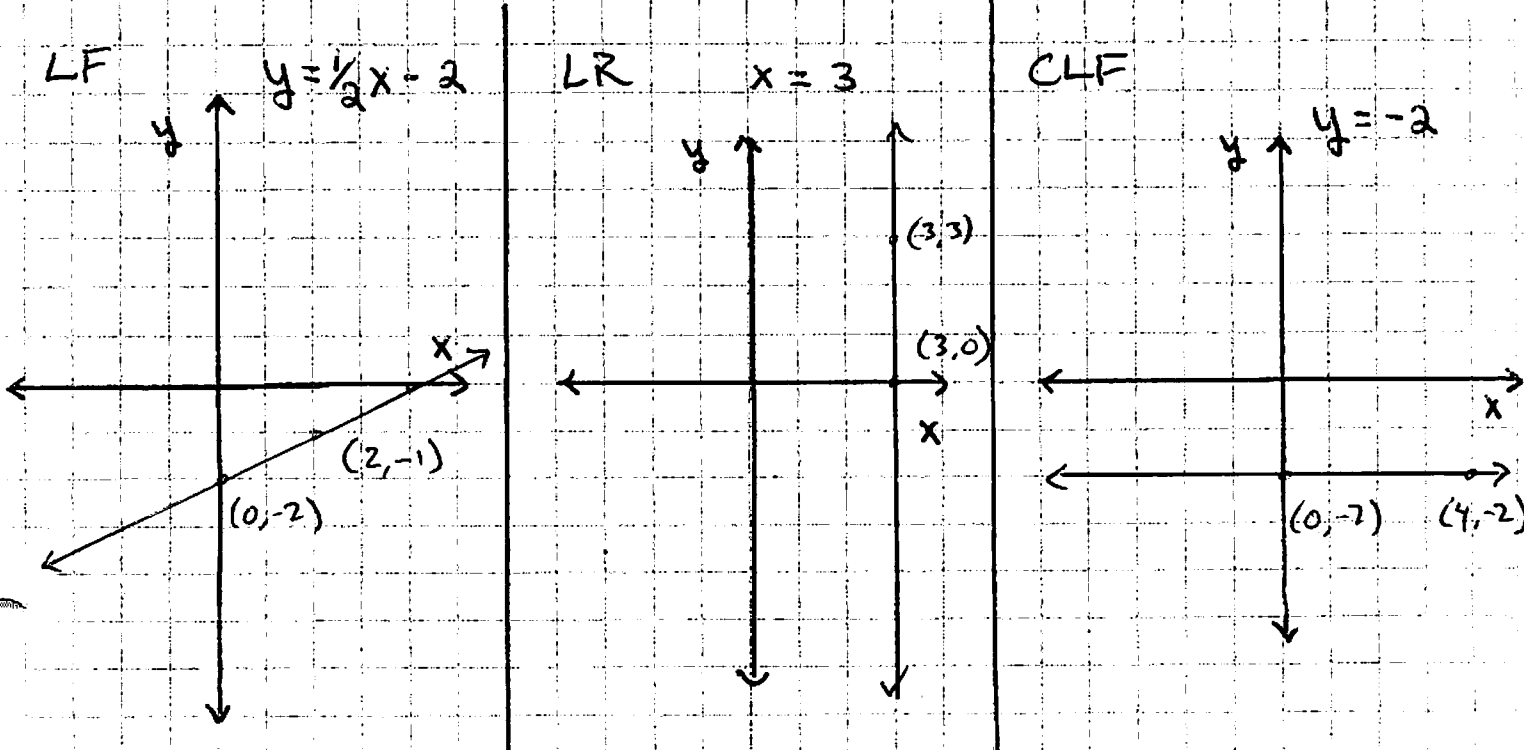
$m \Rightarrow$ slope

$a \Rightarrow$ x-intercept

$b \Rightarrow$ y-intercept

$k \Rightarrow$ constant

NAME IT, GRAPH IT, PUT 2 POINTS ON THE LINE
(3 POINTS EACH)



NAME _____ GRAPH LF PUT 2 POINTS ON THE LINE:
(3 POINTS EACH)

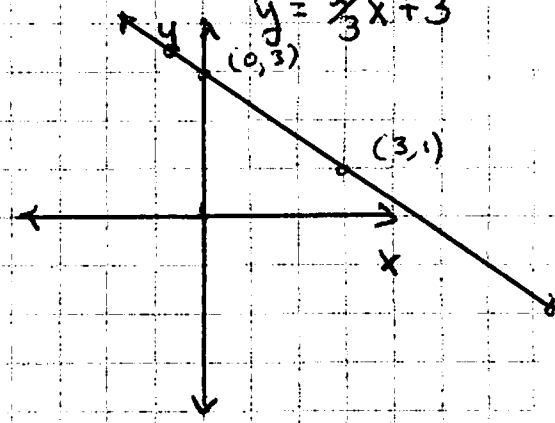
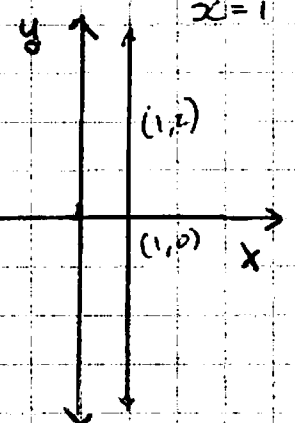
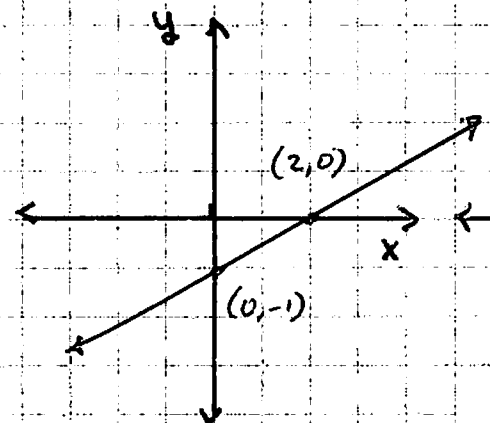
B

LF $2x - 4y = 4$

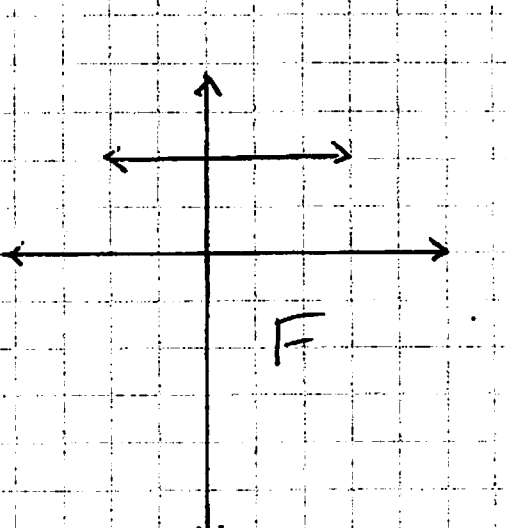
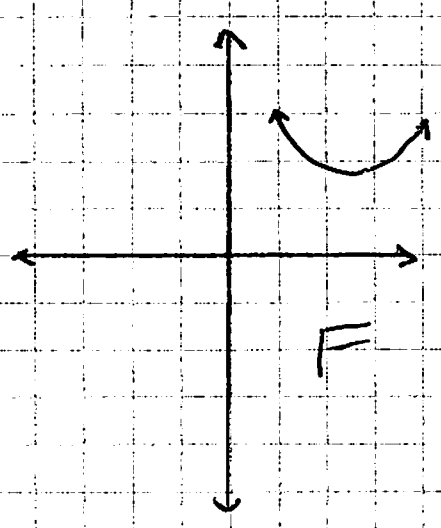
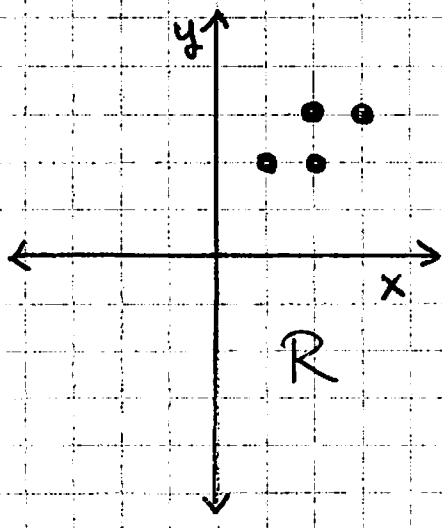
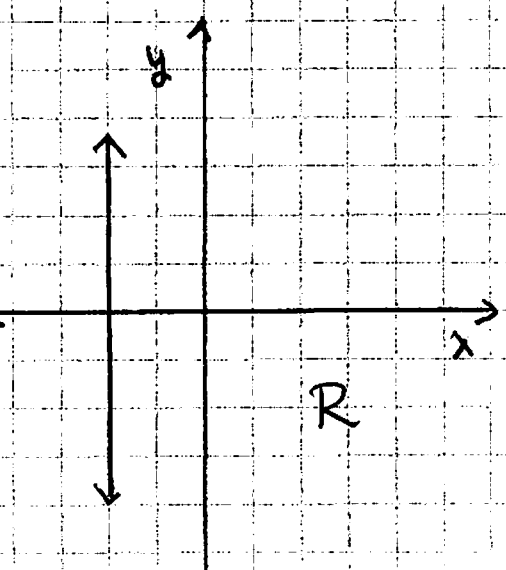
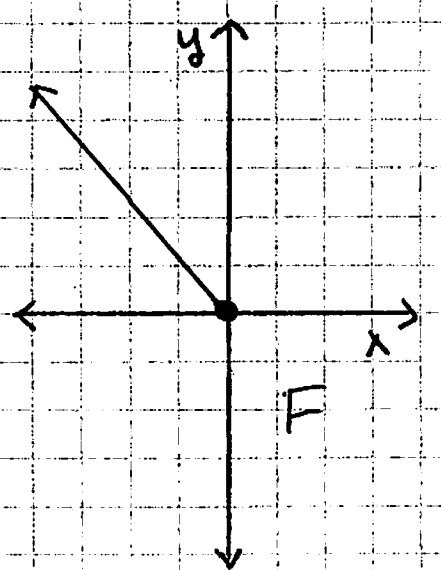
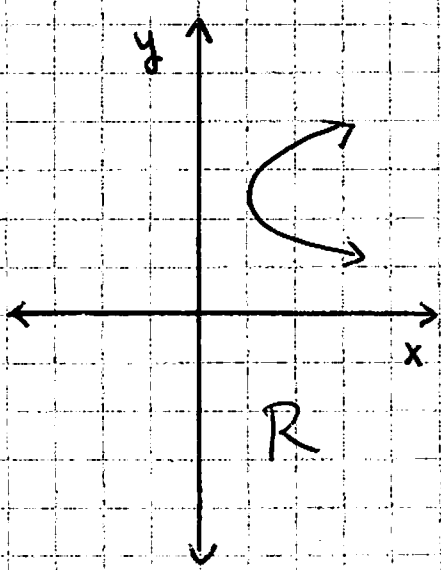
LR $3x - 2x = 1$
 $x = 1$

LF $y = -\frac{2}{3}x + 3$

x	y
0	-1
2	0



FUNCTION OR RELATION (1 POINT EACH)



WRITE IN BOTH STANDARD AND

SLOPE/INTERCEPT FORM

2 POINTS EACH

$$y = mx + b$$

$$y = -3x + 4$$

$$1y + 3x - 4 = 0$$

$$Ax + By = C$$

$$3x + y = 4$$

$$y = mx + b$$

$$y = -\frac{1}{2}x + 2$$

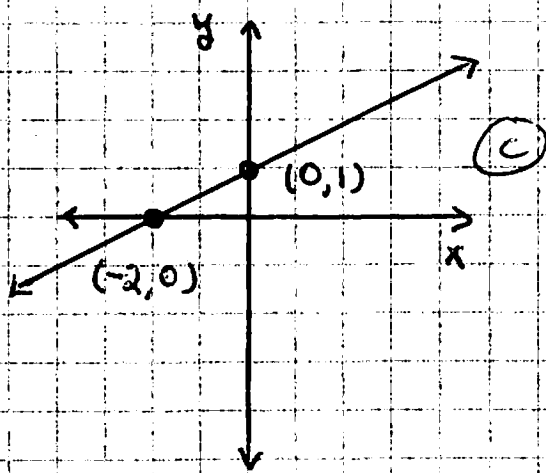
$$\left(\frac{1}{2}x + y\right) = (2)^2$$

$$Ax + By = C$$

$$x + 2y = 4$$

MATCH

1 POINT EACH

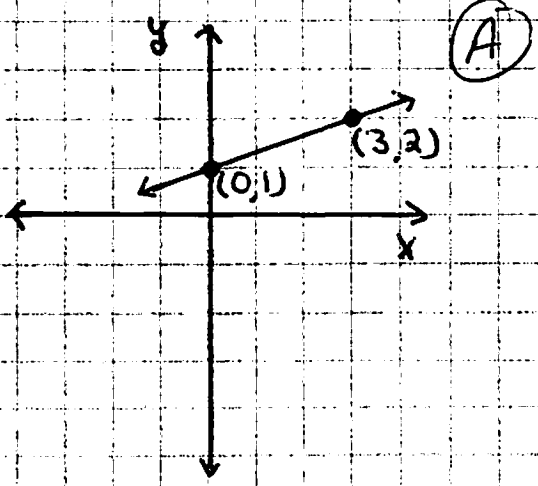


(A) $y = \frac{1}{3}x + 1$

(B) $-2x + 1y = 8$

(C) $-1x + 2y = 2$

$$\begin{array}{r|l} 2 & y \\ 0 & 1 \\ -2 & 0 \end{array}$$



FIND THE SLOPE OF THE FOLLOWING LINES
(2 POINTS EACH)

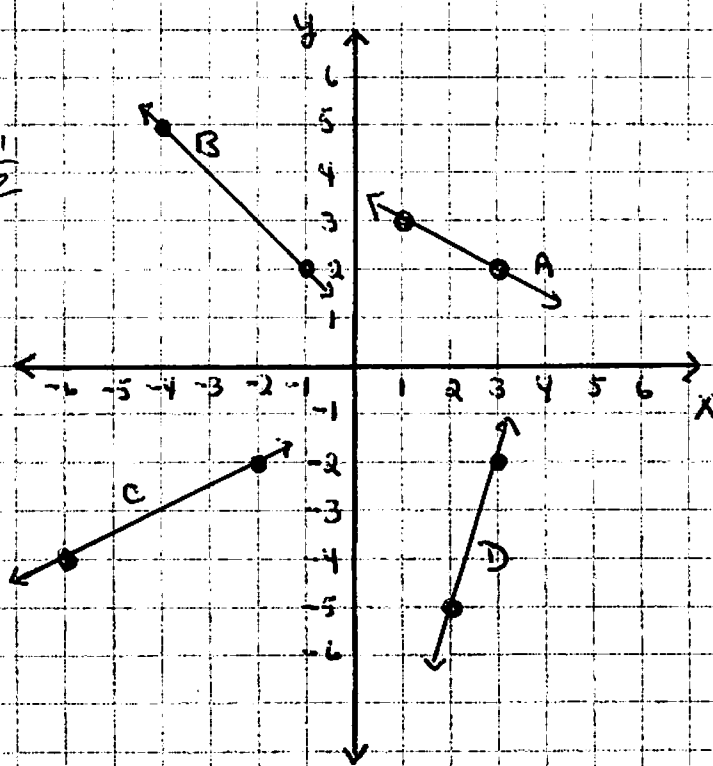
D

LINE A $(1, 3) (3, 2) \rightarrow m = -\frac{1}{2}$

LINE B $(-4, 5) (-1, 2) \rightarrow m = -1$

LINE C $(-6, -4) (-2, -2) \rightarrow m = \frac{1}{2}$

LINE D $(2, 5) (3, -2) \rightarrow m = 3$



GIVEN a's b's m's A's B's AND C's
WRITE AND LABEL THE EQUATIONS AS
LINEAR FUNCTION, CONSTANT LINEAR FUNCTION
OR LINEAR RELATION.
(2 POINTS EACH)

$b = 4$

$y = 4$

$A = 2$

$B = 5$

$C = 7$

$2x + 5y = 7$

$b = -3$

$m = 8$

$y = 8x - 3$

$A = 10$

$B = -4$

$C = 2$

$10x - 4y = 2$

$a = 7$

$x = 7$

$m = \frac{1}{3} \quad y = \frac{1}{3}x + 5$

$b = 5$